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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/783,225	02/19/2004	Dai-Ming Kuo		7419	
75	90 01/26/2006		EXAM	INER	
Dai-Ming Kuo			MCKANE, ELIZABETH L		
P.O. Box 55-846 Taipei, 104	5		ART UNIT	PAPER NUMBER	
TAÏWAN			1744	1744	

DATE MAILED: 01/26/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

			15
	Application No.	Applicant(s)	
	10/783,225	KUO, DAI-MING	
Office Action Summary	Examiner	Art Unit	
	Leigh McKane	1744	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet	with the correspondence add	ress
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period versiliure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may a will apply and will expire SIX (6) MO , cause the application to become	IICATION. a reply be timely filed DNTHS from the mailing date of this com ABANDONED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 2a) ☐ This action is FINAL . 2b) ☑ This 3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.		merits is
Disposition of Claims			
4) ☐ Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-4 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or			
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on 19 February 2004 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	e: a)⊠ accepted or b)☐ drawing(s) be held in abeya ion is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFF	R 1.121(d).
Priority under 35 U.S.C. § 119			
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in ity documents have bee ı (PCT Rule 17.2(a)).	Application No n received in this National S	tage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No	Summary (PTO-413) o(s)/Mail Date Informal Patent Application (PTO-	152)

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Claim Rejections - 35 USC § 102

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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1 and 2 are rejected under 35 U.S.C. 102(e) as being anticipated by Lin (US 2004/0265197).

Lin teaches a rubbish container 2 including an ozone generator 1 mounted on the inside wall of top cover 3.

3. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Yoshimatsu (JP 10-113381).

Yoshimatsu discloses a rubbish container 10 having an ozone generator 8 mounted therein. See Figure 3.

4. Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Kurihara (JP 10-109702).

Kurihara teaches a rubbish container 1 having an ozone generator 11 mounted on the inside surface of top cover 2.

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Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 8. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshimatsu in view of Kobayashi et al. (JP 64-48701).

The generator 8 of Yoshimatsu is not formed on an inside wall of a top cover. However,

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Kobayashi et al. evidences that it was known in the art to form an ozone generator 9 in this location. See Figure 1. As moving the location of the generator involves no invention and the location of the inside wall of the top cover is well-established in the art, it would have been obvious to put the generator of Yoshimatsu on the cover.

9. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lin or Yoshimatsu, both in view of Kurihara and Kobayashi et al. Lin does not teach a vent hole such that the ozone is generated from air entering the vent and the generated ozone is vented into the container. While teaching an on/off switch 53, Lin does not teach a timing control. Yoshimatsu fails to teach a vent hole or control means.

Kurihara discloses an ozone generator for a rubbish container wherein air enters ozone generator through vent 4 and the generated ozone enters directly into the container. It would have been obvious to provide a vent hole in both of Lin and Yoshimatsu since Kurihara evidences that the availability of fresh air promotes efficient generation of ozone.

Kobayashi et al. teaches a rubbish container 1 having an ozone generator 9 on an inside surface of lid 3. Kobayashi et al. further discloses that controller 10 sets a timer and operates the ozone generator for a specified period of time upon each closing of the lid. As Kobayashi et al. discloses that the timing means enables efficient deodorization of the rubbish and eliminates wasteful generation of the gas, it would have been an obvious modification to the inventions of Lin and Yoshimatsu.

10. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lin in view of Yoshimatsu.

Lin discloses that the ozone generator generates ozone through corona discharge. See

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paragraph [0028]. Lin does not specify the structure of the generator. Yoshimatsu, however, discloses a corona discharge ozone generator having a cathode discharge tip 4b aligned with the air vent 4a of the anode and which generates an ion wind through 8b. It would have been obvious to use the ozone generator of Yoshimatsu in the apparatus of Lin, since Yoshimatsu discloses use of the generator in waste receptacles. Moreover, one would have found it obvious to duplicate the cathode tips and anode vents as it has been held to be obvious to duplicate parts for a multiplied effect – that is, to increase the production of ozone.

11. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshimatsu.

Yoshimatsu discloses a corona discharge ozone generator having a cathode discharge tip

4b aligned with the air vent 4a of the anode and which generates an ion wind through 8b. It

would have been obvious to duplicate the cathode tips and anode vents as it has been held to be

obvious to duplicate parts for a multiplied effect – that is, to increase the production of ozone.

12. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kurihara in view Kobayashi et al.

Kurihara discloses an ozone generator for a rubbish container wherein air enters ozone generator through vent 4 and the generated ozone enters directly into the container. Kurihara does not disclose a timing control means.

Kobayashi et al. teaches a rubbish container 1 having an ozone generator 9 on an inside surface of lid 3. Kobayashi et al. further discloses that controller 10 sets a timer and operates the ozone generator for a specified period of time upon each closing of the lid. As Kobayashi et al. discloses that the timing means enables efficient deodorization of the rubbish and eliminates

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wasteful generation of the gas, it would have been an obvious modification to the invention of Kurihara.

13. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kurihara in view of Yoshimatsu.

Kurihara discloses that the ozone generator generates ozone through UV radiation. Yoshimatsu discloses a corona discharge ozone generator having a cathode discharge tip 4b aligned with the air vent 4a of the anode and which generates an ion wind through 8b. It would have been obvious to use the ozone generator of Yoshimatsu in the apparatus of Lin, since Yoshimatsu discloses use of the generator in waste receptacles and it would have been obvious to substitute one known type of ozone generator for another where the results are not unexpected. Moreover, one would have found it obvious to duplicate the cathode tips and anode vents as it has been held to be obvious to duplicate parts for a multiplied effect – that is, to increase the production of ozone.

Conclusion

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leigh McKane whose telephone number is 571-272-1275. The examiner can normally be reached on Monday-Thursday (5:30 am-2:00 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Crispino can be reached on 571-272-1226. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Leigh Mylane Leigh McKane

Primary Examiner

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23 January 2006